Fig. 1A

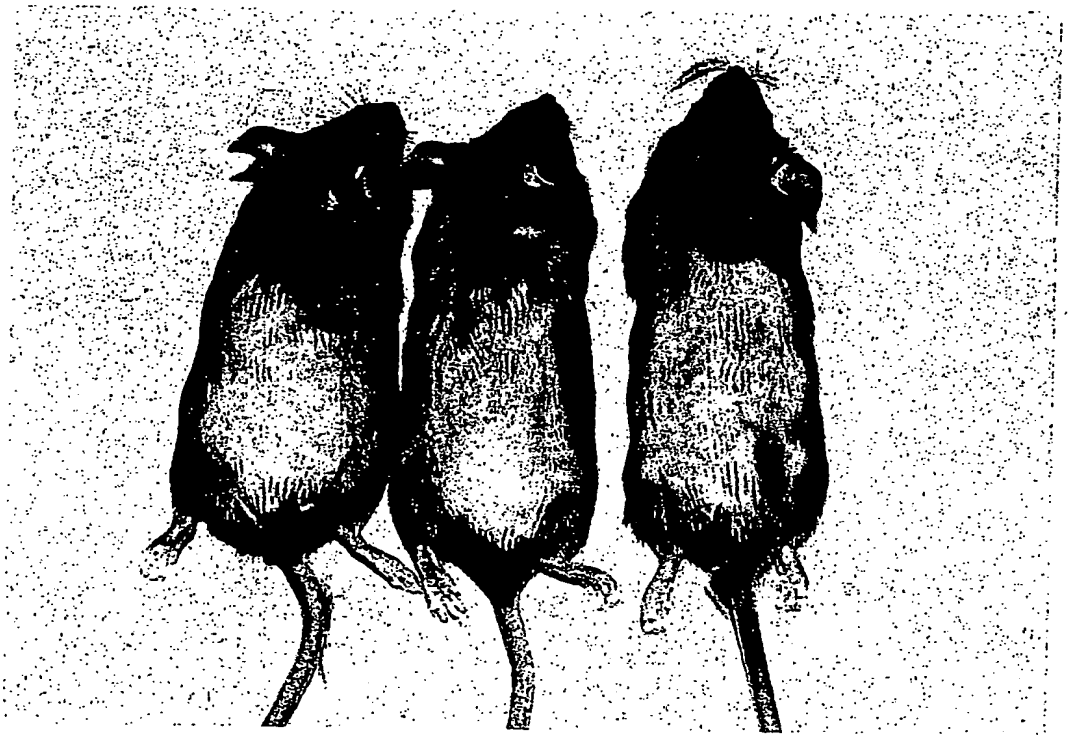


Fig. 1B

Fig. 1C

Fig. 1D

Fig. 2

Fig. 2A

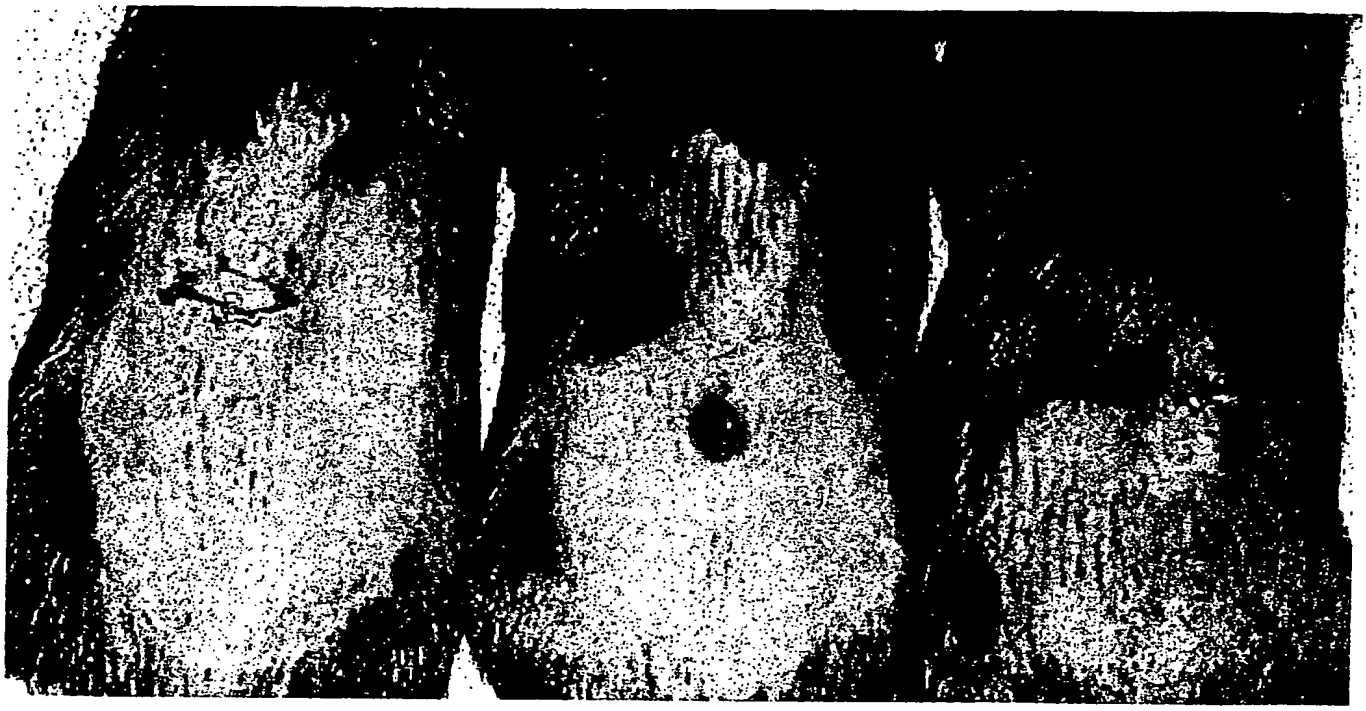


Fig. 2B

Fig. 3

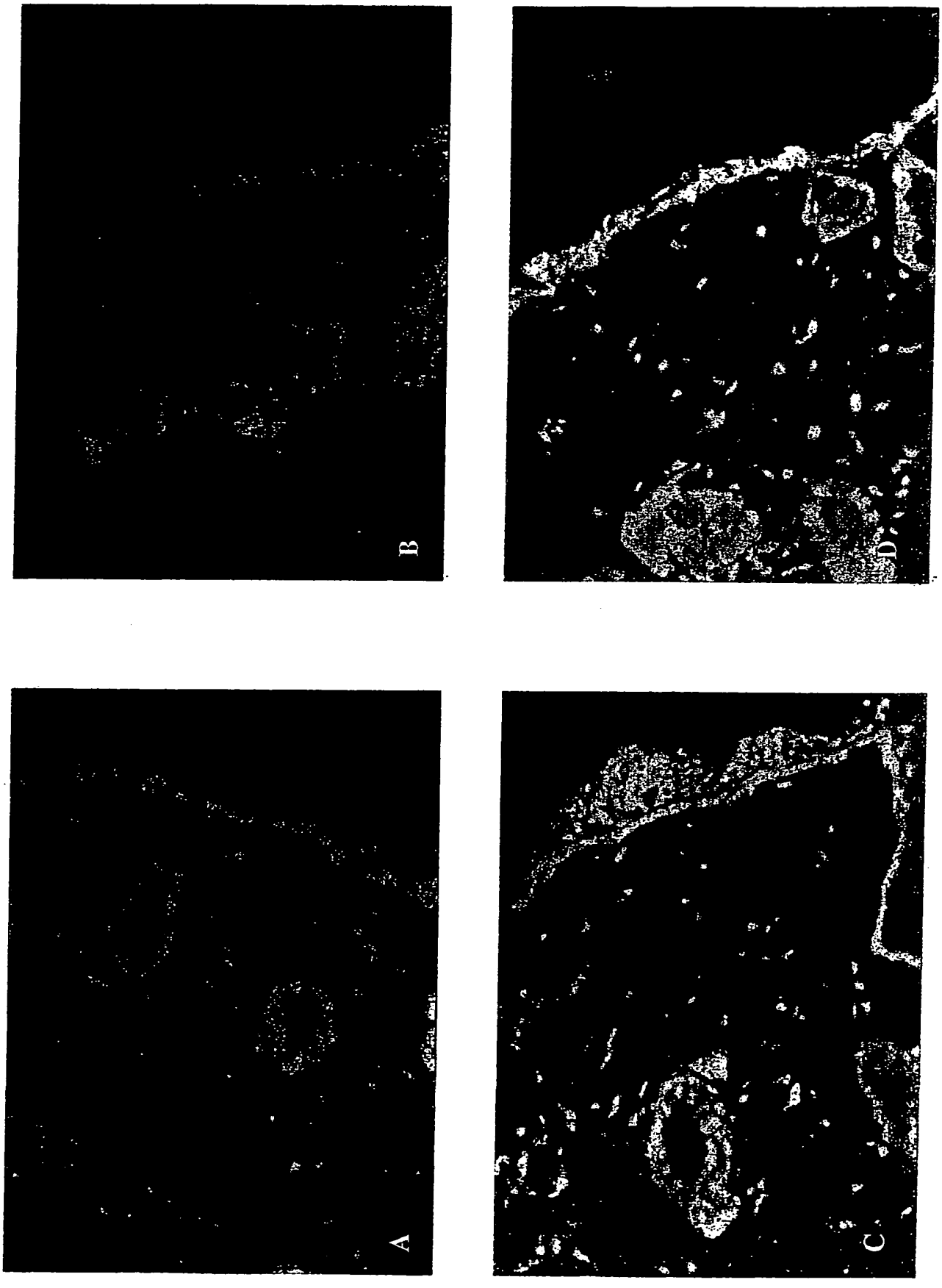


Fig. 4a

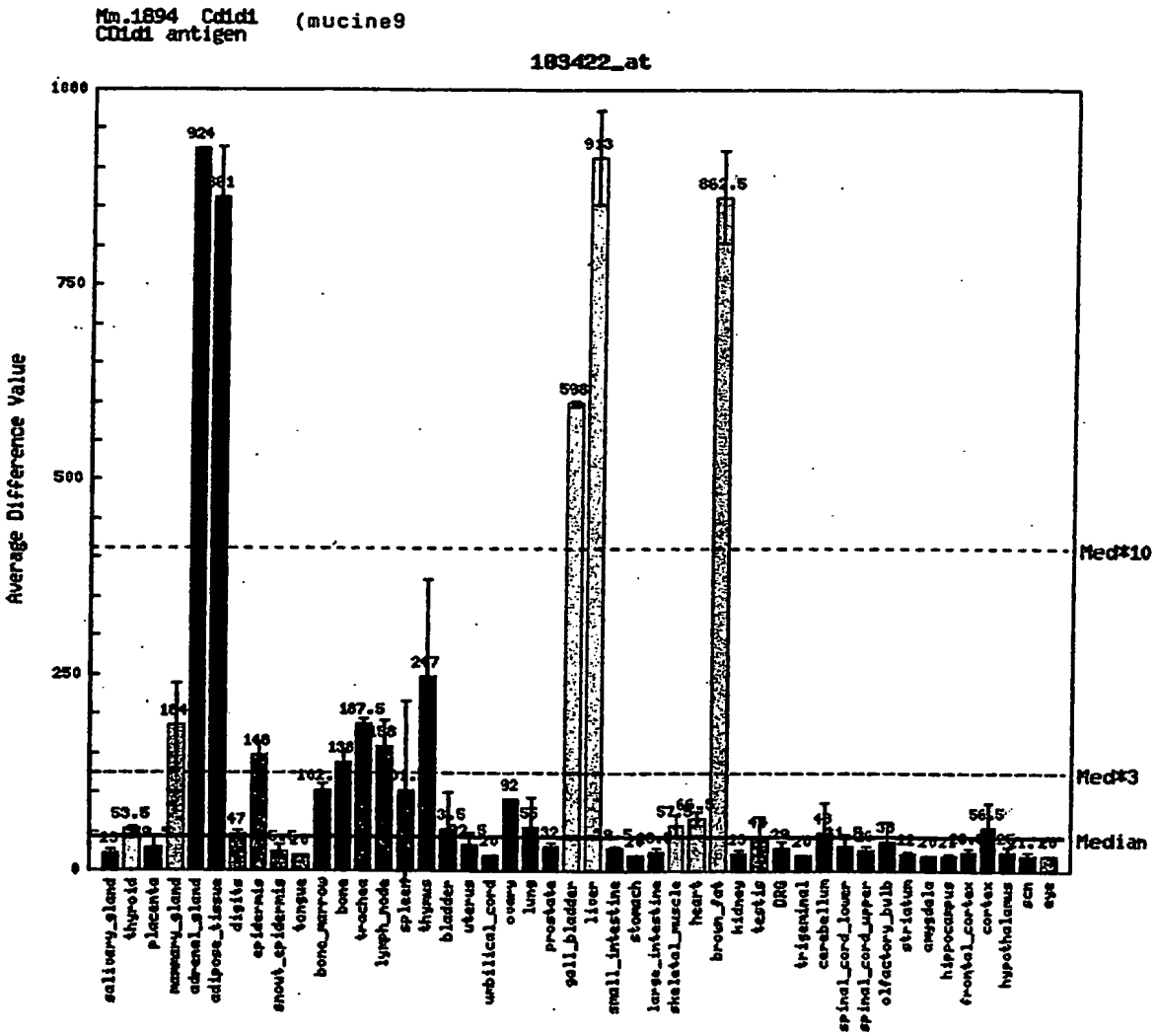
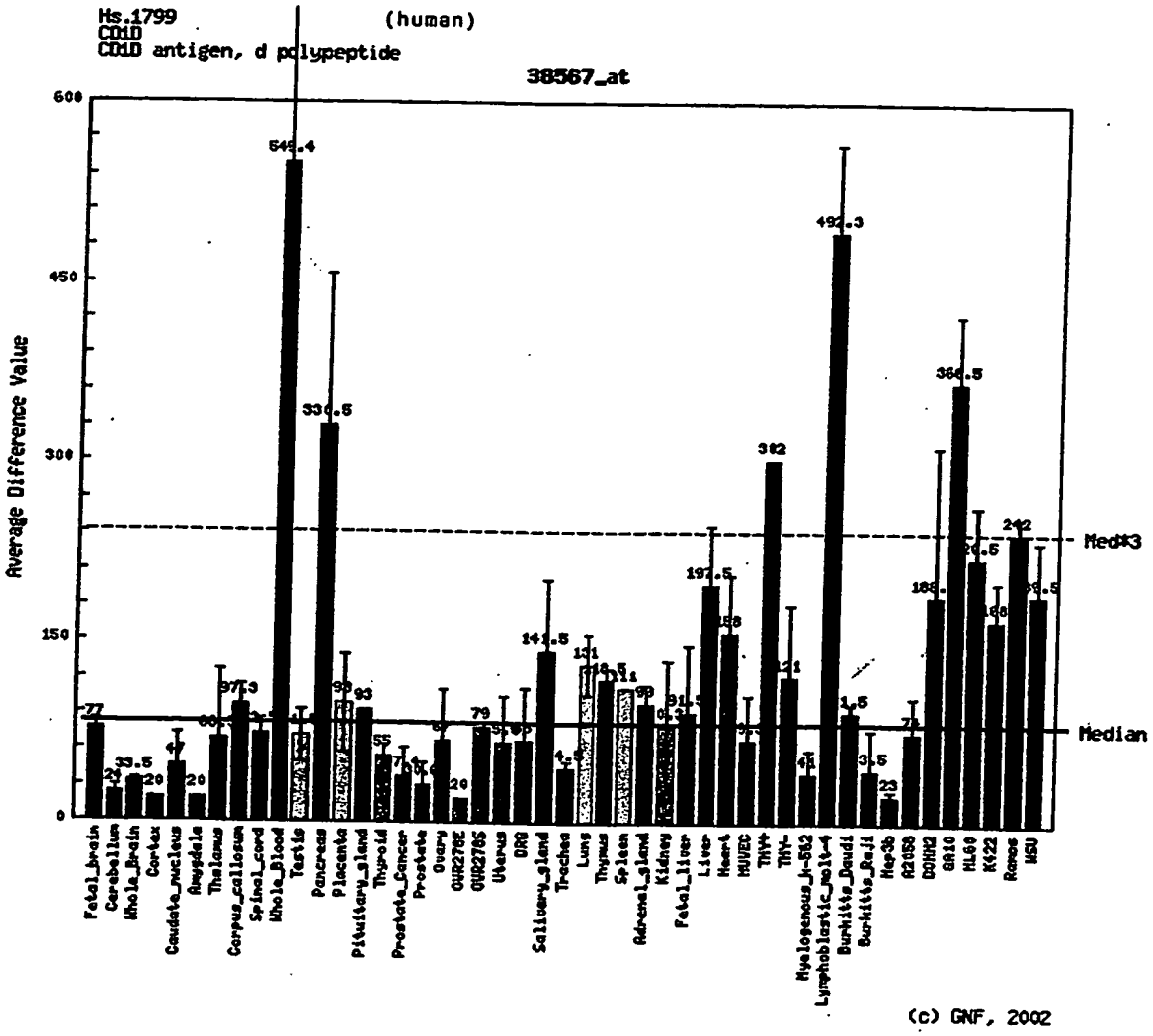

Mm.1894 Cd1d1 (mucine9
CD1d1 antigen
189422_at
Average Difference Value
1000
750
500
250
0
Med*10
Med*3
Median
924
913
862.5
598
247
187.5
168
146
138
102
92
53.5
47
saliary_gland
thyroid
placenta
mammary_gland
adrenal_gland
adipose_tissue
digits
epidermis
snout_epidermis
tongue
bone_marrow
bone
trachea
lymph_node
spleen
thymus
bladder
uterus
umbilical_cord
ovary
lung
prostate
gall_bladder
liver
small_intestine
stomach
large_intestine
skeletal_muscle
heart
brown_fat
kidney
testis
DRG
trigeminal
cerebellum
spinal_cord_lower
spinal_cord_upper
olfactory_bulb
striatum
amygdala
hippocampus
frontal_cortex
cortex
hypothalamus
scn
eye

Fig. 4B


Hs.1799 (human)
CD1D
CD1D antigen, d polypeptide
38567_at
Average Difference Value
600
450
300
150
0
549.4
330.5
492.3
384.5
242
197.5
158
141.5
131
118.5
111
99
97.3
93
79
77
Median
Med*3
Fetal_Brain
Cerebellum
Whole_Brain
Cortex
Caudate_nucleus
Amygdala
Thalamus
Corpus_callosum
Spinal_cord
Whole_Blood
Testis
Pancreas
Placenta
Pituitary_gland
Thyroid
Prostate_Cancer
Prostate
Ovary
OVR2782
OVR2785
Uterus
ORG
Salivary_gland
Trachea
Lung
Thymus
Spleen
Adrenal_gland
Kidney
Fetal_Liver
Liver
Heart
HUVEC
THP1
THP-
Myelogenous_K-562
Lymphoblastic_Molt-4
Burkitts_Daudi
Burkitts_Raji
Hep3b
A2058
DOHH2
GR10
HL60
K422
Raoe
MSU
(c) GNF, 2002

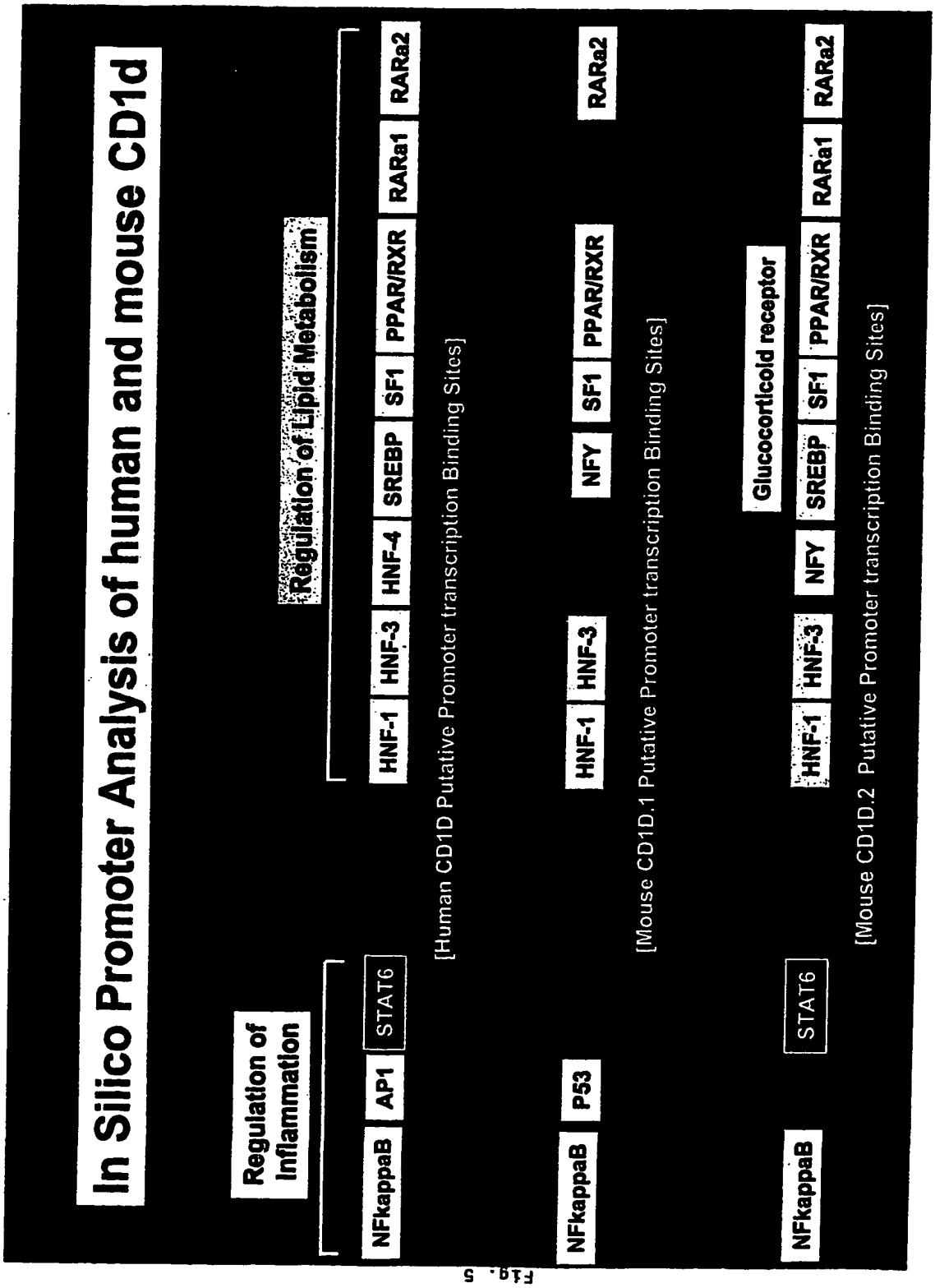

In Silico Promoter Analysis of human and mouse CD1d
Regulation of Inflammation
Regulation of Lipid Metabolism
NFkappaB
AP1
STAT6
HNF-1
HNF-3
HNF-4
SREBP
SF1
PPAR/RXR
RARa1
RARa2
[Human CD1D Putative Promoter transcription Binding Sites]
NFkappaB
P53
HNF-1
HNF-3
NFY
SF1
PPAR/RXR
RARa2
[Mouse CD1D.1 Putative Promoter transcription Binding Sites]
NFkappaB
STAT6
Glucocorticoid receptor
HNF-1
HNF-3
NFY
SREBP
SF1
PPAR/RXR
RARa1
RARa2
[Mouse CD1D.2 Putative Promoter transcription Binding Sites]

Fig. 5

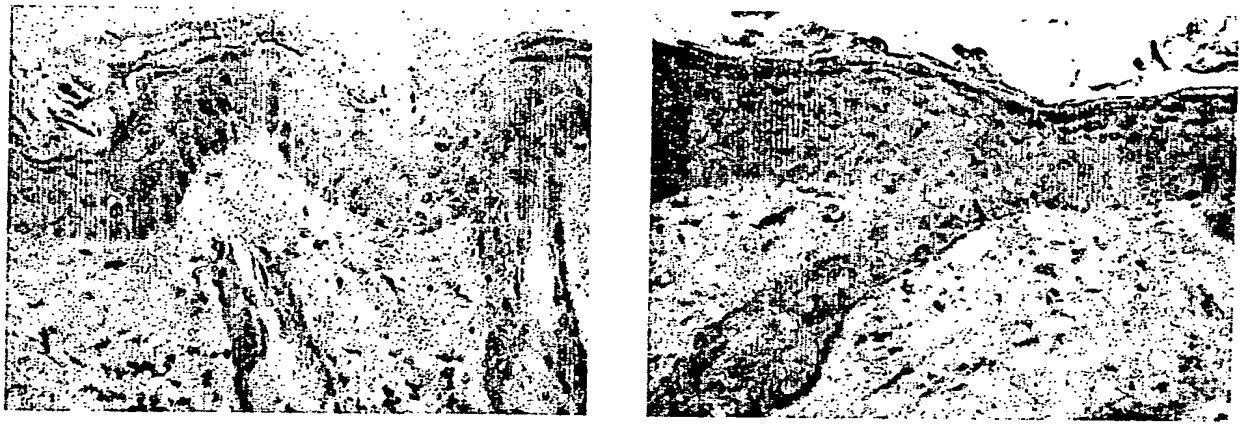


Figure 5. CD1d protein is expressed in the epidermis of mouse skin 72h following exposure to a single dose (430mJ/cm^2) of UVB radiation. Formaline fixed mouse skin was stained using an isotype matched control mAb (**A**) and an anti-CD1d mAb (1H1) (**B**).

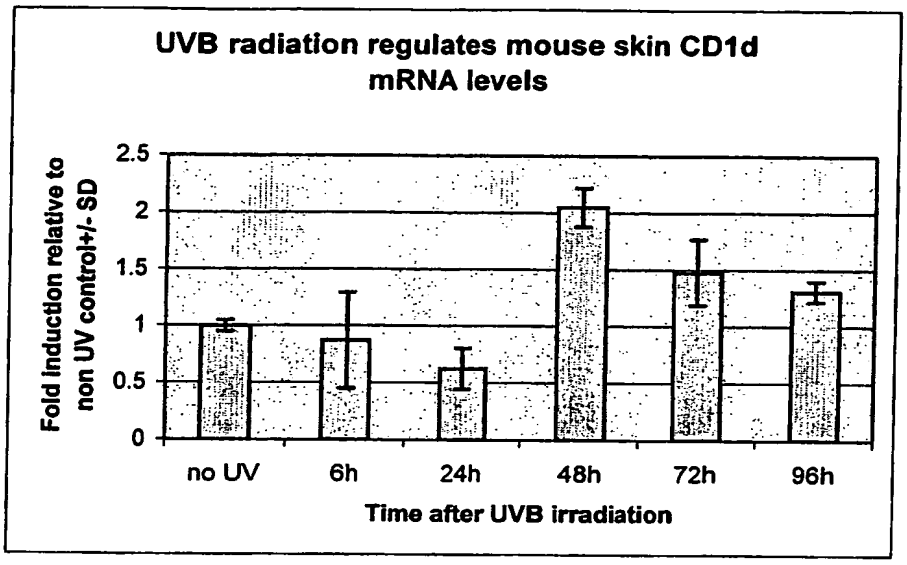


Fig. 6: Mouse skin CD1d gene transcription is regulated following UVB irradiation. The shaved dorsum of wild-type mice (3 mice per experimental group) were exposed to a single dose of 86mJ/cm^2 of UVB radiation. At different time points (6, 24, 48, 72 and 96h) after UV treatment the mice were sacrificed and their UV exposed skin (2 x 2 cm) excised for RNA extraction and purification. Semi-quantitative RT-PCR was then carried out to detect mouse CD1d mRNA. Bars

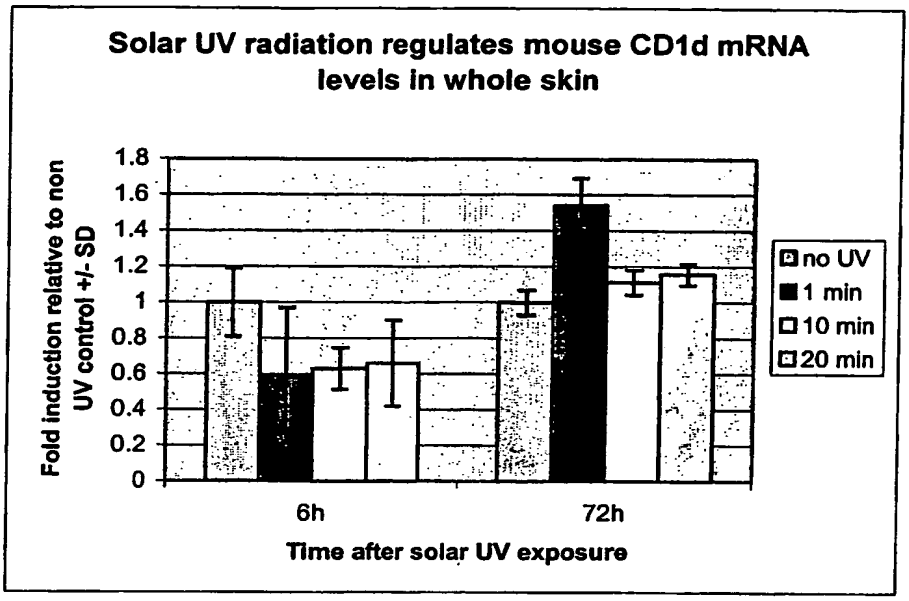


Figure 7: Mouse skin CD1d gene transcription is regulated following solar simulated light irradiation.

The shaved dorsum of wild-type mice (3 mice per experimental group) were exposed to different doses -1680 mJ/cm^2 (1 min), 16,800 mJ/cm^2 (10 min) or 33,600 mJ/cm^2 (20 min) of solar UV simulated light. At 6 and 72h

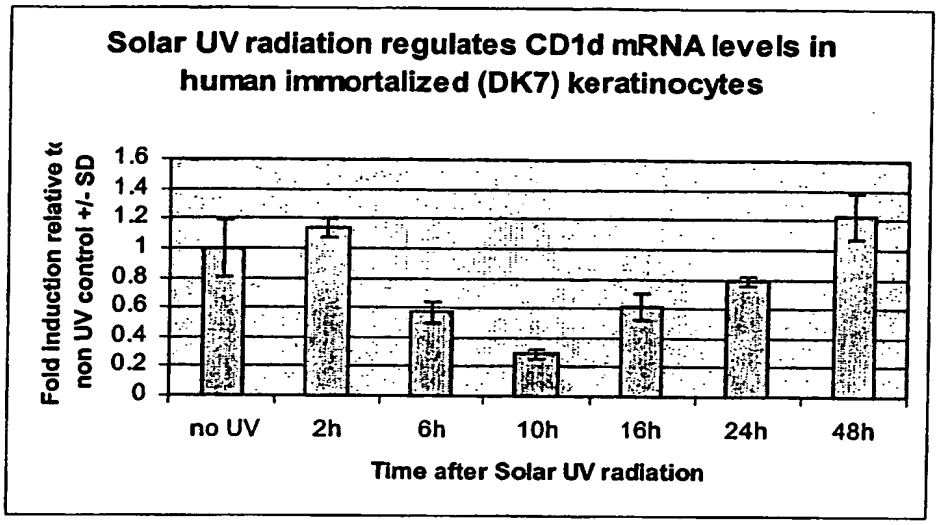


Fig. 8: CD1d gene transcription in immortalized (DK7) human keratinocytes is regulated following solar UV irradiation

Medium was removed from DK7 cells grown in triplicate and replaced with sterile HBSS prior to UV exposure. The cells were exposed to 5700mJ/cm^2 of solar UV radiation and immediately after exposure, HBSS was replaced with normal medium. At various time points thereafter (2, 6, 10, 16, 24 and 48h) the cells were harvested for RNA which was then purified and analysed by semi-quantitative RT-PCR to detect human CD1d mRNA. Control cultures were not irradiated. Bars represent the mean intensity fluorescence of gel bands (normalized to GAPDH) relative to non UV exposed control cell cultures +/- SD.

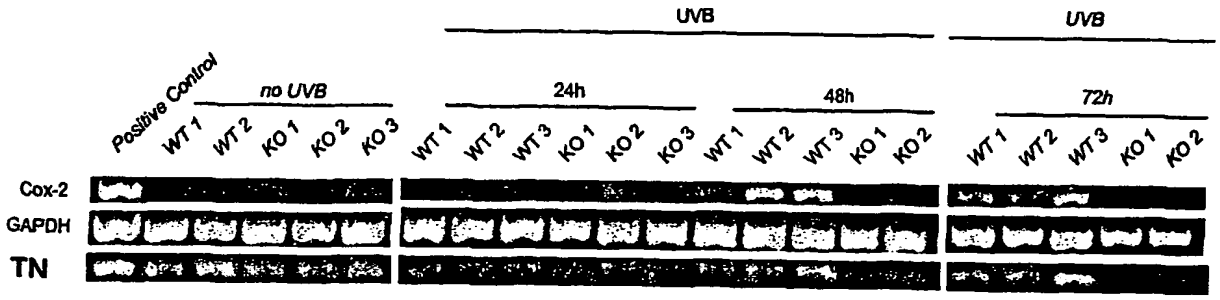
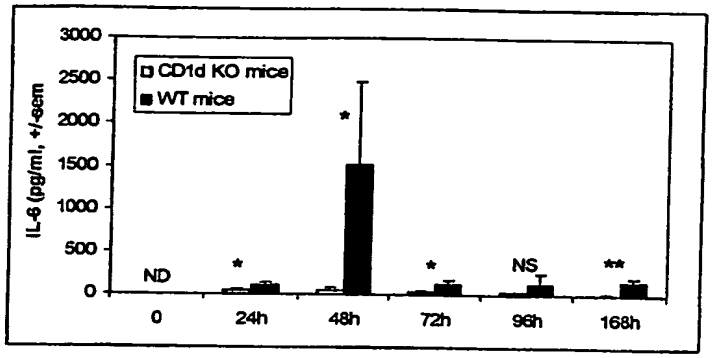


Fig. 9: Cox-2 and TNFalpha mRNA levels are down-regulated in UVB-irradiated CD1d knockout mouse skin.

Total RNA was extracted and purified from whole skins excised from wild-type and CD1d knockout mice at various time points (24, 48 and 72h) after exposure to a single dose (86mJ/cm^2) of UVB radiation. Semi-quantitative RT-PCR was carried out to determine the relative mRNA levels of cox-2



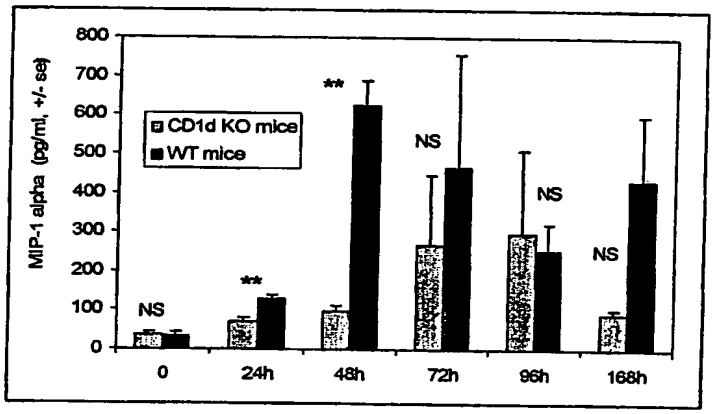


Fig. 10: Mouse skin IL-6 and MIP1-alpha are not induced in CD1d KO mice.

Bars represent the means of 4 animals +/- sem.
Left bar : $CD_{1d}^{-/-}$ mice / right bar : wt mice
Statistical significativity were calculated using the Student 't' test; NS, Non-significative, * $p <= 0.05$, ** $p <= 0.01$.
ND : non-detectable value.

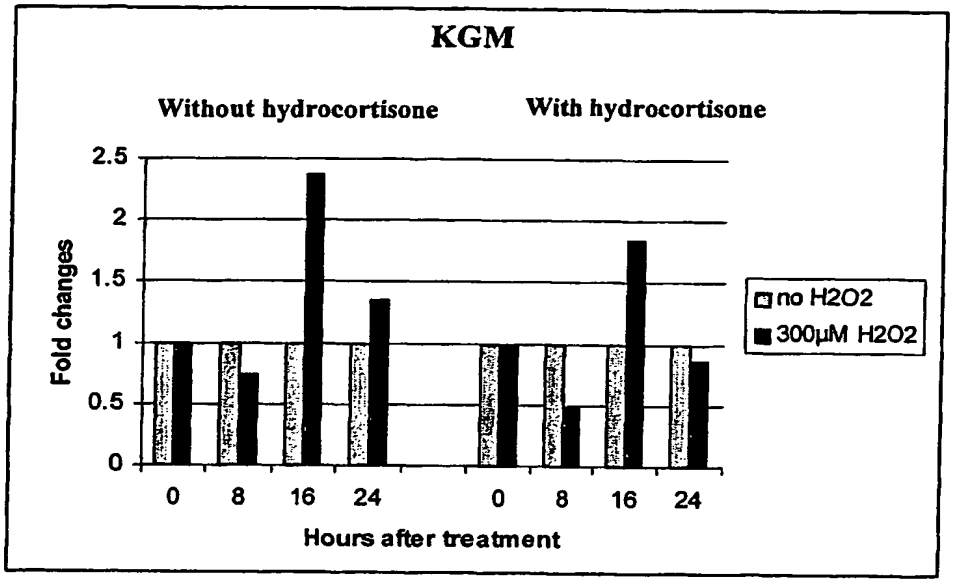


Fig. 11. Effect of H_2O_2 treatment on CD1d gene expression is lowered by presence of Hydrocortisone.

	CONTROL WITHOUT PRIMARY ANTIBODY	CD_{1d} STAINING
HAIR FOLLICLE		

Fig. 12: CD_{1d} IS EXPRESSED IN HAIR FOLLICLE OF HUMAN SKIN